

## EAST Search History

S89	6597	catalyst near bed same (seal\$4 or mount or support or flexible near seal)	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	ON	2007/05/15 10:55
S90	1080	catalyst near bed same (seal\$4 or mount or support or flexible near seal) and horizontal	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	ON	2007/05/15 10:59
S91	192	catalyst near bed same leakage	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	ON	2007/05/15 11:00
S92	11	catalyst near bed same catalyst near leakage	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	ON	2007/05/15 11:27
S93	87	catalyst same catalyst near leakage	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	ON	2007/05/15 11:35
S94	5	wire near mesh and (catalyst near bed) and seal and gas near permeable	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	ON	2007/05/15 11:54
S95	34	wire near mesh and (catalyst near bed) and gas near permeable and wall	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	ON	2007/05/15 11:57
S96	43	wire near mesh and (catalyst near bed) and gas near permeable	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	ON	2007/05/15 12:04
S97	135	wire near mesh and catalyst and gas near permeable and seal\$4	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	ON	2007/05/15 12:17
S98	2	leakage near catalyst and gas near permeable and seal\$4	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	ON	2007/05/15 12:20
S99	51	leakage near catalyst and seal\$4	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	ON	2007/05/15 12:27
S100	3	leakage near catalyst and seal\$4 and ceramic near (balls or spheres or diameter)	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	ON	2007/05/15 12:28

## EAST Search History

S10 1	3	leak\$4 near catalyst and seal\$4 and ceramic near (balls or spheres or diameter)	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	ON	2007/05/15 12:28
S10 2	46	leak\$4 near catalyst and seal\$4 and (balls or spheres or diameter)	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	ON	2007/05/15 12:32
S10 3	80	leak\$4 near catalyst and (balls or spheres or diameter)	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	ON	2007/05/15 12:35
S10 4	140	leak\$4 near catalyst	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	ON	2007/05/15 12:38
S10 5	646	seal\$4 near catalyst	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	ON	2007/05/15 12:42
S10 6	17	seal\$4 near catalyst near bed	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	ON	2007/05/15 12:45
S10 7	2	seal4\$ same (pellet or bead or granual or granular or powdered or particulate or spheres or balls) same catalyst	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	ON	2007/05/15 12:46
S10 8	1	seal4\$ near (pellet or bead or granual or granular or powdered or particulate or spheres or balls)	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	ON	2007/05/15 12:47
S10 9	134	seal4\$ same (pellet or bead or granual or granular or powdered or particulate or spheres or balls)	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	ON	2007/05/15 12:51
S11 0	160	(side or end) near wall same seal4\$	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	ON	2007/05/15 12:52
S11 1	0	(side or end) near wall same seal4\$	US-PGPUB; USPAT; EPO; JPO	OR	ON	2007/05/15 12:52
S11 2	160	(side or end) near wall same seal4\$	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	ON	2007/05/15 12:56

## EAST Search History

S11 3	5	(shell or wall or reactor) same seal\$4 same catalyst	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	ON	2007/05/15 13:16
S11 4	11	sealing near means same (pellet or bead or particulate or granular)	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	ON	2007/05/15 13:18
S11 5	44213	sealing same (pellet or bead or particulate or granular)	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	ON	2007/05/15 13:18
S11 6	633	sealing same (pellet or bead or particulate or granular) same catalyst	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	ON	2007/05/15 13:19
S11 7	1011	sealing same (pellet or bead or particulate or granular or filling) same catalyst	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	ON	2007/05/15 13:21
S11 8	891	sealing same (pellet or bead or granular or filling) same catalyst	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	ON	2007/05/15 13:23
S11 9	716	sealing same (pellet or bead or filling) same catalyst	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	ON	2007/05/15 13:24
S12 0	29	sealing same (pellet or bead or filling) same catalyst and gas near permeable	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	ON	2007/05/15 14:19
S12 1	1215	thermal near expansion same seal\$4 and catalyst	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	ON	2007/05/15 14:20
S12 2	222	thermal near expansion same seal\$4 same catalyst	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	ON	2007/05/15 14:34
S12 3	44	thermal near expansion same seal\$4 same catalyst near bed	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	ON	2007/05/15 14:22
S12 4	114	thermal near expansion same seal\$4 same catalyst same gas	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	ON	2007/05/15 14:36

## EAST Search History

S12 5	1859	thermal near expansion same seal\$4 same (filing or bead or ball or sphere or pellet or powdered or particulate or granule or granular)	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	ON	2007/05/15 14:37
S12 6	673	thermal near expansion same seal\$4 same (filing or bead or ball or sphere or pellet or powdered or particulate or granule or granular)	USPAT	OR	ON	2007/05/15 15:31
S12 7	341	thermal near expansion same seal\$4 same (filing or bead or ball or sphere or pellet or powdered or particulate or granule or granular) and (reactor or vessel or (catalyst near bed or leak\$4))	USPAT	OR	ON	2007/05/15 15:44
S12 8	424	thermal near expansion near seal\$4	USPAT	OR	ON	2007/05/15 16:12

## EAST Search History

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L1	1	catalyst near sealing same support same gas near permeable near wall same filling near elements	US-PGPUB; USPAT	OR	ON	2007/05/23 14:07